

ATTACHMENT 5a – WORK PLAN

(a)Groundwater Study

TASK	Task Name	Deliverable
1	Thermal Monitoring	Update previous thermal monitoring sites (approx. 29) and add additional (25) monitoring sites throughout the Mission Creek Sub-basin (MCSB), including the Garnet Hill Sub-basin (GHSB), which is part of the MCSB but not defined by Bulletin 118 as a separate basin. Collect the data over a 1 year period, and summarize the findings in a final report. In contrast to previous reports will provide an update and contrast on groundwater recharge and basin activity summarized in the final report.
2	CRA Water Spreading via Isotope Evaluation	Isolate groundwater samples (20) to determine the extent of Colorado River Water (CRA) extent and impact on the MCSB & GHSB. Analyze the data and provide a brief summary report with the findings, interpretations and recommendations for continued monitoring.
3	Water Quality Analysis	Identify and evaluate any trends for nitrate, salinity and uranium. Build upon previous studies to update and provide a summary report of the findings, interpretations, and recommendations for continued monitoring.
4	Recommend Monitoring Well Location(s)	Identify up to 3 locations for ground water monitoring wells to assist with basin planning management and expand and enhance the Mission Springs Water District (District)'s CASGEM program. Provide technical specifications for well bid documents.
5	Study Administration	District oversight and general administration of the study, including DWR reporting and final report requirements.

(b) Monitoring Well(s)

Task	Task Name	Deliverable
6	Monitoring Well Drill and Outfit (1-3)	Advertise, bid and construct up to 3 monitoring wells per the approved District design and standards. Completion of 1 – 3 monitoring wells, providing additional well(s) to the District’s CASGEM program and enhancing the understanding of the levels and water quality of the MCSB & GHSB.
7	Geologic Oversight During Well Drilling	The consultant GSI will assist the District during the construction phase of the work. Provide oversight, collect and analyze the drilling lithologic samples, Gamma & E Logs, down hole temperature logs, and oversee well construction including drilling, casing, screen & screen pack installation, well pump testing, water quality testing, and provide a summary report of findings, and recommendation for continued monitoring for each well drilled.
8	Well Administration	The District will provide administration and project oversight for the well drilling project. Coordinate consultant and construction contracts and project administration, including DWR reporting, including periodic and final reports.
9	Environmental	The District in cooperation with a qualified consultant will provide CEQA analysis and determination for any and all well monitoring sites associated with the project. Provide CEQA documentation and compliance as applicable.
10	Planning & Design/Soils & Survey	The District and/or qualified consultant will provide the base design for the monitoring well construction, including plans, specifications and the initial soils evaluation and reports as necessary, and provide for the land survey of the site(s).
11	Well CM (construction management)	District will contract with a qualified consultant or use District staff or a combination of both to administer the well drilling construction. Provide daily inspection, reports, review and approve materials, and oversee the contractor and any consultants during the construction of the well(s).
12	LCM (labor compliance) Program	District will contract with a qualified consultant or use District staff to complete and comply with labor compliance requirements inherent in this phase of the work. Produce monthly compliance reports and provide monitoring activities.